SCORE Search Results Details for Application 10531543 and Search Result 20081031_131728_us-10-531-543-1.rng.

This page gives you Search Results detail for the Application 10531543 and Search Result 20081031_131728_us-10-531-543-1.rng.

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                         GenCore version 6.3
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OM nucleic - nucleic search, using sw model

Run on:        October 31, 2008, 16:58:58 ; Search time 455 Seconds
                                           (without alignments)
                                           39457.692 Million cell updates/sec

Title:         US-10-531-543-1
Perfect score: 1262
Sequence:      1 ctggtggggaaggtccaaag..........tgaaaaaaaaaaaaaaaaa 1262

Scoring table: IDENTITY_NUC
               Gapop 10.0 , Gapext 1.0

Searched:      11806651 seqs, 7113014948 residues

Total number of hits satisfying chosen parameters:       23613302

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :     N_Geneseq_200808:*
               1:  geneseqn1980s:*
               2:  geneseqn1990s:*
               3:  geneseqn2000:*
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29:  geneseqn2008:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	1262	100.0	1262	21	AEG21170	Aeg21170 Human Jab
2	1262	100.0	1262	21	AFS77968	Afs77968 Human Jun
3	1260	99.8	1282	29	AOF63552	Aof63552 Mouse Kip
4	966.8	76.6	1288	18	ADY80674	Ady80674 Human JAB
5	966.8	76.6	1288	18	ADY80675	Ady80675 Human JAB
6	966.8	76.6	1309	18	ADY80676	Ady80676 Human JAB
7	966.8	76.6	1510	18	ADY80669	Ady80669 Human JAB
8	959.4	76.0	1292	10	ADI31651	Adi31651 Human cDN
9	959.4	76.0	1292	12	ADS83718	Ads83718 Human lym
10	959.4	76.0	1292	18	ADY80668	Ady80668 Human JAB
11	948.8	75.2	1277	9	ADF81512	Adf81512 Leukaemia
12	948.8	75.2	1277	12	ACN38816	Acn38816 Tumour-as
13	948.8	75.2	1277	20	AFU76250	Afu76250 Human pro
14	948.8	75.2	1277	20	AFU81485	Afu81485 Human pro
15	948.4	75.2	1287	6	AAD24415	Aad24415 Human RNA
16	936.8	74.2	1433	13	ADP56481	Adp56481 Human bre
17	881.6	69.9	981	2	AAT32620	Aat32620 pACT59 co

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     18     881.6     69.9      981    3   AAA94275           Aaa94275 Murine T
     19     874       69.3     1263    9   ADA53665           Ada53665 Human cod
     20     823.2     65.2      949    6   ABS51512           Abs51512 Human cDN
     21     797.6     63.2      919    2   AAT32621           Aat32621 pACT74 co
     22     797.6     63.2      919    3   AAA94276           Aaa94276 Murine T
     23     791.2     62.7     1262   13   ADP56483           Adp56483 Human bre
     24     791.2     62.7     1937   13   ADP56482           Adp56482 Human bre
     25     790.6     62.6     3479   13   ADR08249           Adr08249 Full leng
     26     753.2     59.7      871    6   ABS51518           Abs51518 Human cDN
     27     750.2     59.4      868    8   ACA57249           Aca57249 Human adi
     28     697.8     55.3     1661   27   ARB60069           Arb60069 DNA fragm
     29     674.2     53.4     1059   27   ARB75265           Arb75265 DNA fragm
     30     674.2     53.4     1729    6   ABZ78075           Abz78075 Human bre
     31     669.8     53.1      777    8   ACA57301           Aca57301 Human adi
     32     590.4     46.8      680    8   ACA57034           Aca57034 Human adi
     33     570.6     45.2      657    8   ACA57385           Aca57385 Human adi
     34     567.6     45.0      654    8   ACA57045           Aca57045 Human adi
     35     560.4     44.4      642    6   ABS51593           Abs51593 Human cDN
     36     554.4     43.9      636    8   ACA57112           Aca57112 Human adi
     37     534.4     42.3      757   27   ARB73520           Arb73520 DNA fragm
     38     509.8     40.4      585    6   ABS51610           Abs51610 Human cDN
     39     495       39.2      579   19   AEE12148           Aee12148 Hamster c
     40     495       39.2      579   19   AEE15790           Aee15790 Hamster S
     41     475.6     37.7     1314   13   ADP56484           Adp56484 Human bre
     42     475       37.6      562    6   ABK39139           Abk39139 cDNA enco
     43     475       37.6      562    8   ACA02654           Aca02654 Lung canc
     44     475       37.6      562    8   ACA11468           Aca11468 Human lun
     45     475       37.6      562    9   ADH46696           Adh46696 Human lun
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ALIGNMENTS

RESULT 1
AEG21170
ID   AEG21170 standard; DNA; 1262 BP.
XX
AC   AEG21170;
XX
DT   04-MAY-2006 (first entry)
XX
DE   Human Jab1 DNA.
XX
KW   gene; ds; flavivirus infection; pestivirus infection; infection;
KW   Jun-activation binding protein 1; West nile virus infection;
KW   neurological disease; temperature disorder; fever;
KW   cardiovascular disease; bleeding; jaundice; gastrointestinal disease;
KW   metabolic disorder; arthralgia; myalgia; musculoskeletal disease;
KW   encephalitis; meningitis; Virucide; Antipyretic; Antiinflammatory;

```
KW    Antiallergic; Hemostatic; Hepatotropic; apoptosis inhibitor.
XX
OS    Homo sapiens.
XX
FH    Key                Location/Qualifiers
FT    CDS                94. .1098
FT                       /*tag=  a
FT                       /product= "Jab1"
XX
PN    WO2006025623-A1.
XX
PD    09-MAR-2006.
XX
PF    31-AUG-2004; 2004WO-KR002190.
XX
PR    31-AUG-2004; 2004WO-KR002190.
XX
PA    (UYSU-) UNIV SUNGKYUNKWAN.
XX
PI    Song J,  Oh W,  Pyo SN,  Yang J,  Lee H,  Lee SR,  Sung YH;
XX
DR    WPI; 2006-204334/21.
DR    P-PSDB; AEG21171.
XX
PT    New composition comprising a Jab1 (Jun-activation binding protein 1)
PT    protein or the nucleic acid sequence encoding the protein, useful for
PT    treating or preventing a flavivirus or pestivirus infection, e.g. fever,
PT    rash, meningitis.
XX
PS    Claim 3; SEQ ID NO 1; 72pp; English.
XX
CC    This invention describes a novel composition for treating or preventing a
CC    flavivirus or pestivirus infection, comprising a Jab1 (Jun-activation
CC    binding protein 1) protein AEG21171 or the nucleic acid sequence encoding
CC    the protein, AEG21170. The invention also describes; a) a method of
CC    screening a compound stimulating expression of a Jab1 protein, comprising
CC    culturing a cell expressing the Jab1 protein, contacting the cultured
CC    cell with candidate compounds for stimulating expression of the Jab1
CC    protein, comparing an expression level of the Jab1 protein with that in a
CC    control not contacted with the candidate compounds and identifying a
CC    compound increasing expression levels of the Jab1 protein and b) a method
CC    of screening a compound stimulating interaction between a Jab1 protein
CC    and a capsid (Cp) protein, comprising culturing a cell transformed with
CC    both a recombinant vector expressing the Jab1 protein and another
CC    recombinant vector expressing the Cp protein of flavivirus or pestivirus,
CC    contacting the cultured cell with candidate compounds for stimulating
CC    interaction between the Jab1 protein and the Cp protein, comparing an
CC    expression level of the Cp protein with that in a control not contacted
CC    with the candidate compounds and identifying a compound reducing
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CC    expression levels of the Cp protein. The Jab1 nucleic acid AEG21170 can
CC    be incorporated into a recombinant viral vector selected from recombinant
CC    retrovirus, adenovirus, adeno-associated virus and herpes simplex virus.
CC    The composition of the invention is particularly effective for treating
CC    flavivirus infection e.g. West Nile virus which causes fever, rash,
CC    bleeding, jaundice, arthralgia, myalgia, encephalitis or meningitis. This
CC    sequence encodes the human Jab1 protein. The Jab1 protein is found to
CC    interact with the capsid protein of flavivirus and inhibits apoptosis by
CC    accelerating the degradation of the capsid protein.
XX
SQ    Sequence 1262 BP; 394 A; 265 C; 302 G; 301 T; 0 U; 0 Other;
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  Query Match             100.0%;  Score 1262;  DB 21;  Length 1262;
  Best Local Similarity   100.0%;  Pred. No. 0;
  Matches 1262;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;
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Qy    61 TTGTGGAGCGACAGCTTCTCCGGTGCCTCGGCCATGGCAGCTTCCGGGAGTGGTATGGCC 120
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Qy   121 CAGAAAACCTGGGAATTGGCCAACAACATGCAGGAAGCGCAGAGTATCGATGAAATCTAC 180
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Qy   181 AAATATGACAAAAAACAACAACAAGAAATCCTGGCGGCGAAACCCTGGACTAAGGATCAC 240
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Qy   421 CAAGCTGCTGCGTATGAGTATATGGCTGCATACATAGAAAATGCCAAACAGGTTGGCCGC 480
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Db   421 CAAGCTGCTGCGTATGAGTATATGGCTGCATACATAGAAAATGCCAAACAGGTTGGCCGC 480

Qy   481 CTTGAGAATGCAATCGGTTGGTATCATAGCCACCCTGGTTATGGCTGCTGGCTCTCCGGG 540
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Qy      541  ATTGATGTTAGTACACAGATGCTGAACCAGCAGTTTCAAGAACCATTTGTAGCAGTGGTG  600
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Qy      661  CCAAAGGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATCCCACTTAAT  720
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Db      661  CCAAAGGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATCCCACTTAAT  720

Qy      721  AAAATAGAAGATTTTGGCGTGCACTGCAAACAATATTATGCCTTAGAAGTCTCATATTTC  780
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Db      721  AAAATAGAAGATTTTGGCGTGCACTGCAAACAATATTATGCCTTAGAAGTCTCATATTTC  780

Qy      781  AAATCATCTTTGGATCGTAAACTACTTGAGCTTTTGTGGAATAAATACTGGGTGAATACC  840
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Db      781  AAATCATCTTTGGATCGTAAACTACTTGAGCTTTTGTGGAATAAATACTGGGTGAATACC  840

Qy      841  CTGAGTTCCTCTAGCTTGCTTACTAATGCAGACTACACCACAGGCCAGGTGTTTGATTTG  900
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Qy      901  TCTGAGAAGTTAGAGCAGTCGGAAGCCCAACTGGGACGTGGCAGTTTCATGTTGGGCTTA  960
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Qy      961  GAAACACATGACCGCAAGTCGGAAGACAAACTTGCCAAAGCTACTAGAGACAGCTGTAAA  1020
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Qy     1021  ACCACCATAGAAGCCATCCATGGACTGATGTCTCAGGTTATTAAGGATAAACTGTTTAAT  1080
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Qy     1141  GAAGCTCAAGTAACACTTTTAACCCAGTTACCAAAACTCAGATTAGAAGACTAAGGTGCT  1200
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Db       1201 GTGTGGTGTCCTGAGTATTAGCACTGTAATAAAACTATCACGTGAAAAAAAAAAAAAAAA 1260

Qy       1261 AA 1262
              ||
Db       1261 AA 1262


RESULT 2
AFS77968
ID    AFS77968 standard; DNA; 1262 BP.
XX
AC    AFS77968;
XX
DT    14-JUN-2007  (first entry)
XX
DE    Human Jun-activation binding protein 1 gene, SEQ ID NO: 1.
XX
KW    gene; ds; Jab1; Jun-activation binding protein 1; apoptosis inhibition;
KW    flavivirus infection; gene therapy; protein degradation; capsid;
KW    pestivirus infection.
XX
OS    Homo sapiens.
XX
FH    Key            Location/Qualifiers
FT    CDS            94. .1098
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FT                   /product= "Human Jun-activation binding protein 1"
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PN    KR2006020531-A.
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PD    06-MAR-2006.
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PF    31-AUG-2004; 2004KR-00069381.
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PR    31-AUG-2004; 2004KR-00069381.
XX
PA    (UYSU-) UNIV SUNGKYUNKWAN.
XX
PI    Song JW, Oh WK, Sung YH, Lee SR, Lee HW, Pyo SN, Yang JS;
XX
DR    WPI; 2006-764085/78.
DR    P-PSDB; AFS77969.
XX
PT    Composition for treating virus infection diseases comprising jab1
PT    inhibiting apoptosis by promotion of decomposition of capsid proteins.
XX
PS    Claim 2; SEQ ID NO 1; 26pp; Korean.
XX
CC    The invention relates to a composition for treating viral infections
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CC    comprising a recombinant vector comprising a Jab1 (Jun-activation binding
CC    protein 1) DNA for inhibiting apoptosis by promoting the decomposition of
CC    capsid proteins, useful for treating diseases caused by infection by a
CC    flavivirus or a pestivirus such as pyrexia, eruption, hemorrhage,
CC    jaundice, arthralgia, encephalitis or meningitis. The recombinant vector
CC    of the invention is a recombinant virus vector selected from a
CC    recombinant retrovirus, adenovirus, adeno-associated virus and Herpes
CC    simplex virus. The present sequence encodes the human Jab1 polypeptide of
CC    the current invention.
XX
SQ    Sequence 1262 BP; 394 A; 265 C; 302 G; 301 T; 0 U; 0 Other;

  Query Match             100.0%;  Score 1262;  DB 21;  Length 1262;
  Best Local Similarity   100.0%;  Pred. No. 0;
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Qy    241 CACTACTTTAAATACTGCAAAATCTCAGCATTGGCTCTACTGAAAATGGTGATGCATGCC 300
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Qy    301 AGGTCAGGAGGCAACTTGGAAGTGATGGGTTTGATGCTCGGGAAAGTCGACGGCGAGACC 360
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Db    301 AGGTCAGGAGGCAACTTGGAAGTGATGGGTTTGATGCTCGGGAAAGTCGACGGCGAGACC 360

Qy    361 ATGATCATCATGGACAGTTTCGCTTTGCCTGTAGAGGGCACAGAAACTCGAGTAAATGCT 420
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Db    361 ATGATCATCATGGACAGTTTCGCTTTGCCTGTAGAGGGCACAGAAACTCGAGTAAATGCT 420

Qy    421 CAAGCTGCTGCGTATGAGTATATGGCTGCATACATAGAAAATGCCAAACAGGTTGGCCGC 480
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Qy    481 CTTGAGAATGCAATCGGTTGGTATCATAGCCACCCTGGTTATGGCTGCTGGCTCTCCGGG 540
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Db         541   ATTGATGTTAGTACACAGATGCTGAACCAGCAGTTTCAAGAACCATTTGTAGCAGTGGTG   600

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Db         601   ATTGATCCAACCAGAACAATCTCTGCAGGAAAAGTGAATCTTGGCGCCTTTAGGACATAT   660

Qy         661   CCAAAGGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATCCCACTTAAT   720
                 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db         661   CCAAAGGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATCCCACTTAAT   720

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Db         901   TCTGAGAAGTTAGAGCAGTCGGAAGCCCAACTGGGACGTGGCAGTTTCATGTTGGGCTTA   960

Qy         961   GAAACACATGACCGCAAGTCGGAAGACAAACTTGCCAAAGCTACTAGAGACAGCTGTAAA   1020
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                 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db        1021   ACCACCATAGAAGCCATCCATGGACTGATGTCTCAGGTTATTAAGGATAAACTGTTTAAT   1080

Qy        1081   CAGATTAACGTTGCTTAGTTACCACCAAGTACTTCTCAAAGCTGGTGTGTGGAAGGAAAA   1140
                 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db        1081   CAGATTAACGTTGCTTAGTTACCACCAAGTACTTCTCAAAGCTGGTGTGTGGAAGGAAAA   1140

Qy        1141   GAAGCTCAAGTAACACTTTTTAACCCAGTTACCAAAACTCAGATTAGAAGACTAAGGTGCT   1200
                 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db        1141   GAAGCTCAAGTAACACTTTTTAACCCAGTTACCAAAACTCAGATTAGAAGACTAAGGTGCT   1200

Qy        1201   GTGTGGTGTCCTGAGTATTAGCACTGTAATAAAACTATCACGTGAAAAAAAAAAAAAAAA   1260
                 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Db        1201 GTGTGGTGTCCTGAGTATTAGCACTGTAATAAAACTATCACGTGAAAAAAAAAAAAAAAA 1260

Qy        1261 AA 1262
               ||
Db        1261 AA 1262


RESULT 3
AOF63552
ID    AOF63552 standard; DNA; 1282 BP.
XX
AC    AOF63552;
XX
DT    15-MAY-2008  (first entry)
XX
DE    Mouse Kip1 C-terminus interacting protein-2 coding sequence, SEQ ID 1.
XX
KW    drug screening; cancer; leukemia; stem cell;
KW    Kip1 C-terminus interacting protein-2; Kic2; ds; gene.
XX
OS    Mus musculus.
XX
FH    Key               Location/Qualifiers
FT    CDS               116. .1120
FT                      /*tag=  a
FT                      /product= "Kip1 C-terminus interacting protein-2"
XX
PN    JP2007330205-A.
XX
PD    27-DEC-2007.
XX
PF    16-JUN-2006; 2006JP-00168160.
XX
PR    16-JUN-2006; 2006JP-00168160.
XX
PA    (UYNA-) UNIV NARA.
XX
PI    Kato J;
XX
DR    WPI; 2008-E37671/30.
DR    P-PSDB; AOF63555.
DR    GENBANK; AF068223.
DR    PC:NCBI; gi7380922.
DR    PC_ENCPRO:NCBI; gi7380923.
XX
PT    Preparation of cancer stem cell useful in screening antileukemic agents,
PT    involves raising leukemia spontaneous transgenic non-human animal over
PT    expressing Jab1 gene, and obtaining cancer stem cell from raised animal.
XX
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PS    Example 1; SEQ ID NO 1; 22pp; Japanese.
XX
CC    The present invention relates to a method of producing cancer stem cell.
CC    The method involves raising leukemia spontaneous transgenic animal
CC    capable of over expressing Jab1 gene, and obtaining cancer stem cell from
CC    the raised animal. The present invention also provides a method for
CC    screening antileukemic agents comprises contacting the cancer stem cell
CC    with test substance; measuring the Jab1 expression level of cancer stem
CC    cell, stem cell activity or survival rate of cancer stem cell; comparing
CC    the measured parameters with Jab1 expression level, stem cell activity or
CC    survival rate of control (cancer stem cell not contacted with test
CC    substance); and selecting the test substance as therapeutic agent of
CC    leukemia. Also described is: method of evaluating leukemia therapeutic
CC    effect of test drug with respect to target stem cell. The method of the
CC    invention enables the abundant production of cancer stem cells using
CC    transgenic animal and useful in screening therapeutic and/or preventive
CC    agent of leukemia, evaluating drug efficacy and in elucidating cancer
CC    onset mechanism. The present sequence is a mouse Kip1 C-terminus
CC    interacting protein-2 (Kic2) coding sequence similar to Homo sapiens Jun
CC    activation domain binding protein (Jab1) of the invention.
CC
CC    Revised record issued on 29-JAN-2008 : Enhanced with precomputed
CC    information from BOND.
XX
SQ    Sequence 1282 BP; 396 A; 268 C; 311 G; 307 T; 0 U; 0 Other;

  Query Match            99.8%;  Score 1260;  DB 29;  Length 1282;
  Best Local Similarity  100.0%;  Pred. No. 0;
  Matches 1260;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 CTGGTGGGGAAGGTCCAAAGCCCGCACGCTGAGGCCCAGTAGAAGAAAGTTGCATCTTGA 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     23 CTGGTGGGGAAGGTCCAAAGCCCGCACGCTGAGGCCCAGTAGAAGAAAGTTGCATCTTGA 82

Qy     61 TTGTGGAGCGACAGCTTCTCCGGTGCCTCGGCCATGGCAGCTTCCGGGAGTGGTATGGCC 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     83 TTGTGGAGCGACAGCTTCTCCGGTGCCTCGGCCATGGCAGCTTCCGGGAGTGGTATGGCC 142

Qy    121 CAGAAAACCTGGGAATTGGCCAACAACATGCAGGAAGCGCAGAGTATCGATGAAATCTAC 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    143 CAGAAAACCTGGGAATTGGCCAACAACATGCAGGAAGCGCAGAGTATCGATGAAATCTAC 202

Qy    181 AAATATGACAAAAAACAACAACAAGAAATCCTGGCGGCGAAACCCTGGACTAAGGATCAC 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    203 AAATATGACAAAAAACAACAACAAGAAATCCTGGCGGCGAAACCCTGGACTAAGGATCAC 262

Qy    241 CACTACTTTAAATACTGCAAAATCTCAGCATTGGCTCTACTGAAAATGGTGATGCATGCC 300
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    263 CACTACTTTAAATACTGCAAAATCTCAGCATTGGCTCTACTGAAAATGGTGATGCATGCC 322
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Qy    301  AGGTCAGGAGGCAACTTGGAAGTGATGGGTTTGATGCTCGGGAAAGTCGACGGCGAGACC  360
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    323  AGGTCAGGAGGCAACTTGGAAGTGATGGGTTTGATGCTCGGGAAAGTCGACGGCGAGACC  382

Qy    361  ATGATCATCATGGACAGTTTCGCTTTGCCTGTAGAGGGCACAGAAACTCGAGTAAATGCT  420
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    383  ATGATCATCATGGACAGTTTCGCTTTGCCTGTAGAGGGCACAGAAACTCGAGTAAATGCT  442

Qy    421  CAAGCTGCTGCGTATGAGTATATGGCTGCATACATAGAAAATGCCAAACAGGTTGGCCGC  480
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    443  CAAGCTGCTGCGTATGAGTATATGGCTGCATACATAGAAAATGCCAAACAGGTTGGCCGC  502

Qy    481  CTTGAGAATGCAATCGGTTGGTATCATAGCCACCCTGGTTATGGCTGCTGGCTCTCCGGG  540
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    503  CTTGAGAATGCAATCGGTTGGTATCATAGCCACCCTGGTTATGGCTGCTGGCTCTCCGGG  562

Qy    541  ATTGATGTTAGTACACAGATGCTGAACCAGCAGTTTCAAGAACCATTTGTAGCAGTGGTG  600
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    563  ATTGATGTTAGTACACAGATGCTGAACCAGCAGTTTCAAGAACCATTTGTAGCAGTGGTG  622

Qy    601  ATTGATCCAACCAGAACAATCTCTGCAGGAAAAGTGAATCTTGGCGCCTTTAGGACATAT  660
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    623  ATTGATCCAACCAGAACAATCTCTGCAGGAAAAGTGAATCTTGGCGCCTTTAGGACATAT  682

Qy    661  CCAAAGGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATCCCACTTAAT  720
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    683  CCAAAGGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATCCCACTTAAT  742

Qy    721  AAAATAGAAGATTTTGGCGTGCACTGCAAACAATATTATGCCTTAGAAGTCTCATATTTC  780
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    743  AAAATAGAAGATTTTGGCGTGCACTGCAAACAATATTATGCCTTAGAAGTCTCATATTTC  802

Qy    781  AAATCATCTTTGGATCGTAAACTACTTGAGCTTTTGTGGAATAAATACTGGGTGAATACC  840
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    803  AAATCATCTTTGGATCGTAAACTACTTGAGCTTTTGTGGAATAAATACTGGGTGAATACC  862

Qy    841  CTGAGTTCCTCTAGCTTGCTTACTAATGCAGACTACACCACAGGCCAGGTGTTTGATTTG  900
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    863  CTGAGTTCCTCTAGCTTGCTTACTAATGCAGACTACACCACAGGCCAGGTGTTTGATTTG  922

Qy    901  TCTGAGAAGTTAGAGCAGTCGGAAGCCCAACTGGGACGTGGCAGTTTCATGTTGGGCTTA  960
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    923  TCTGAGAAGTTAGAGCAGTCGGAAGCCCAACTGGGACGTGGCAGTTTCATGTTGGGCTTA  982

Qy    961  GAAACACATGACCGCAAGTCGGAAGACAAACTTGCCAAAGCTACTAGAGACAGCTGTAAA  1020
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    983  GAAACACATGACCGCAAGTCGGAAGACAAACTTGCCAAAGCTACTAGAGACAGCTGTAAA  1042
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Qy   1021  ACCACCATAGAAGCCATCCATGGACTGATGTCTCAGGTTATTAAGGATAAACTGTTTAAT  1080
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1043  ACCACCATAGAAGCCATCCATGGACTGATGTCTCAGGTTATTAAGGATAAACTGTTTAAT  1102

Qy   1081  CAGATTAACGTTGCTTAGTTACCACCAAGTACTTCTCAAAGCTGGTGTGTGGAAGGAAAA  1140
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1103  CAGATTAACGTTGCTTAGTTACCACCAAGTACTTCTCAAAGCTGGTGTGTGGAAGGAAAA  1162

Qy   1141  GAAGCTCAAGTAACACTTTTAACCCAGTTACCAAAACTCAGATTAGAAGACTAAGGTGCT  1200
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1163  GAAGCTCAAGTAACACTTTTAACCCAGTTACCAAAACTCAGATTAGAAGACTAAGGTGCT  1222

Qy   1201  GTGTGGTGTCCTGAGTATTAGCACTGTAATAAAACTATCACGTGAAAAAAAAAAAAAAAA  1260
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1223  GTGTGGTGTCCTGAGTATTAGCACTGTAATAAAACTATCACGTGAAAAAAAAAAAAAAAA  1282
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